



Q 1

The affect of genetic drift increases as the population size?

A

increases

B

decreased

C

remains same

D

none of these

Q 2

What is critical in photoperiodism?

A

Length of light period

B

Length of dark period

C

both a and b

D

none of these

1

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Q 3

Where the heterozygote is indistinguishable from one of the homozygotes the allele involved is said to be?

A

recessive

B

dominant

C

both a and b

D

none of these

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Q 4

The fate of each blastomere is foretold. What will that cleavage be?

A

Spiral and indeterminate

B

Radial and indeterminate

C

Radial and indeterminate

D

Spiral and determinate

3

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Q 5

When cocaine is used as a stimulant, it interferes with the CNS at the reuptake of which hormone?

A

testosterone

B

dopamine

C

serotonin

D

adrenaline

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Q 6

How many laminae present in the spinal cord's grey matter?

A

10

B

8

C

12

D

9

5

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Q 7

A triglyceride is considered as

A

protien

B

nucleic acid

C

a simple sugar

D

lipid

6

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Q 8

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

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Q 9

The number of spermatids produced from primary spermatocytes is?

A

1

B

2

C

3

D

4

8

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Q 10

The attraction between water molecules and cell wall of xylem is termed as:

A

cohesion

B

tension

C

adhesion

D

imbibition

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Q 11

The organisms able to use sunlight directly as a source of energy are?

A

Plants

B

Animals

C

Fungi

D

Omnivores

10

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Q 12

Coelom that develops from the archenteron as outpouching is?

A

Pseudocoelom

B

Schizocoelom

C

Enterocoelom

D

both a and b

11

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Q 13

The first layer of cell wall which is formed is called?

A

primary wall

B

secondary wall

C

middle lamella

D

all of these

12

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Q 14

The average diameter of large viruses is approximately equal to

A

100 to 160 nm

B

100 to 200 nm

C

100 nm to 360 nm

D

always below than 100 nm

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Q 15

Nutrition to egg in ovary is provided by which of the following?

A

germ cells

B

milk cells

C

follicle cells

D

all of these

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Q 16 Which of the following statements is correct distinction between autotrophs and heterotrophs

- A only heterotrophs require chemical compounds from the environment
- B cellular respiration is unique to heterotrophs
- C only heterotrophs have mitochondria
- D autotrophs but not heterotrophs can nourish themselves beginning with nutrients that are entirely inorganic

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Q 17 The skeleton of the sponges is in the form of variously shaped needle like structures called?

A Stipules

B Brails

C Spines

D Spicules

16

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Q 18

Closed circulatory system is present in which group of invertebrates?

A

Arthropods

B

Gastopods

C

Aves

D

Annelids

17

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Q 19

60S and 40S subunit combine to form what size particle?

A

80S

B

90S

C

100S

D

110S

18

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Q 20

The external solution having more concentration than the cell sap is known as:

A

Hypertonic solution

B

Hypotonic solution

C

Isotonic solution

D

All A,B and C

19

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Q 21

What is the pH of fresh HCl?

A

1.5

B

5-7

C

2-3

D

4-5

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Q 22 The presence of which of the following feature would best indicate a eukaryotic cell?

A cilia

B organelles

C plasma membrane

D ribosomes

21

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Q 23

Which term means "same alleles"?

A

Heterozygous

B

Hybrid

C

Homozygous

D

None of them

22

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Q 24 Transverse diffusion (flip-flop) is the movement of which of the following molecules?

A cholesterol molecule

B amino acid

C protein

D phospholipid

23

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Q 25

The primary function of cofactors is to?

A

assist in enzyme synthesis

B

assist in enzyme inhibition

C

assist in enzyme activity

D

both a and b

24

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Q 26

Bacteria are capable of "sharing" genetic material that can be advantageous in certain environments. This type of gene transmission is an example of which of the following?

A

transduction

B

transformation

C

binary fission

D

conjugation

25

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Q 27

What affect do enzymes have on the activation energy of a reaction?

A

increases

B

decreases

C

no affect

D

Increases or decreases depending upon individual enzyme

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Q 28

What type of viruses are the polioviruses?

A

DNA enveloped virus

B

RNA enveloped virus

C

dna naked virus

D

rna naked virus

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Q 29

Pseudocoelom is a characteristic feature of which of the following?

A

Coelenterates

B

Platyhelminthes

C

Annelids

D

Aschelminthes

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Q 30

Which of the following best describes a coenzyme?

A

Covalently bonded non-protein part of an enzyme

B

cofactor consists of metal ions

C

Loosely bonded non-protein part of an enzyme

D

both a and b

29

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Q 31

Which of the following is required for learning?

A

Medulla

B

Thalamus

C

hypothalamus

D

Hippocampus

30

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Q 32

Cancer expands systematically by:

A

Locally

B

Systemic

C

Metastasis

D

Invasion

31

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Q 33

Interaction between genes occupying different loci is known as?

A

Dominance

B

Pleiotropy

C

Epistasis

D

none of these

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Q 34 How many thin filaments are arrayed around each thick filament within a sarcomere?

A 2

B 4

C 6

D 8

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Q 35

Apomixis is a form of which of the following?

A

Parthenocarpy

B

Parthenogenesis

C

vernalization

D

all of these

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Q 36

In the human body, the group formed by neurons enclosed in the membrane at certain body parts is called?

A

benign

B

malign

C

ganglion

D

neuroglial

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Q 37

All of the following are trace elements except

A

Iron

B

chromium

C

nickle

D

sulphur is minor element

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Q 38

Where does the molecular mechanism of oxidative phosphorylation take place?

A

cytosol

B

mitochondria

C

nucleus

D

all of these

37

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Q 39

Sperms are developed at what temperature?

A

lower than body temperature

B

higher than body temperature

C

body temperature

D

all of these

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Q 40

___ are diffused very slowly through plasma membrane

A

disacchrides

B

oligosaccharides

C

proteins

D

fats

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Q 41

Which of these processes help in skeletal muscle relaxation after contraction?

A

Motor neurons send electrical signals to to muscles

B

troponin binds calcium

C

calcium is released from intracellular storage sites

D

None of these

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Q 42

The spent energy in the form of ADP is regenerated by mitochondria into which of the following form?

A

AMP

B

ATP

C

ADP

D

all of these

41

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Q 43

In the evolutionary sense, which organism has the highest fitness?

A

A sterile mule that can pull over 800 pounds

B

A childless human male who lives to be over one hundred years old

C

A dog who cannot give birth due to a hip abnormality, but is healthy in all other respects

D

A prairie dog that, though smaller than the average member of her species, has twice as many healthy young in each litter

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Q 44

Which of these acts as a relay centre connecting hindbrain with the forebrain

A

Forebrain

B

Midbrain

C

Hindbrain

D

Limbic system

43

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Q 45

what is the main distinguishing features of globular proteins?

A

crystalline

B

disorganized

C

functional

D

both a and c

44

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Q 46

The raw material for coenzymes are?

A

proteins

B

vitamins

C

lipids

D

both a and b

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Q 47

A population of birds encounters a dramatic event that results in a severe decrease in population size. As a result of the newly-decreased population, what type of genetic drift does this population now exhibit?

A Artificial selection

B Founder affect

C Bottleneck affect

D both a and b

46

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Q 48

Which of the following is true regarding a test cross?

- A The traits of a test cross are homozygous dominant
- B Test cross can only be used for monohybrid and dihybrid crosses
- C It is a tool used by researchers to determine the genotype of earlier generations
- D both a and b

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Q 49

The ultimate source of all the change is?

A

migration

B

mutation

C

genetic drift

D

selection

48

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Q 50

The best definition of natural selection is?

A

survival of the fittest

B

the most fit individuals adapt to their environment better than less fit individuals

C

those who eat better, are healthier, and live longer are the most fit within a population

D

preservation of traits that lead to increased survival and reproduction

49

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Q 51

Which of the following use book lungs to breathe?

A

earthworm

B

scorpions

C

fish

D

all of these

50

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Q 52

ATP molecules are consumed during which process?

A

Glycolysis

B

Krebs cycle

C

light dependent phase

D

none

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Q 53

In cell fractionation various components of cells including its organelles can be isolated in different layers depending upon?

A Their physical properties like size & weight

B Physical properties of the medium like its density.

C Their electrical properties like their charges

D both a and b

52

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Q 54

The event happens in menstrual cycle when level of progesterone declines:

A

Ovulation

B

beginning of menses

C

corpus luteum formation

D

maturation of ovarian follicle

53

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Q 55

Which of the following is not a risk factor for miscarriage?

A

Advanced maternal age

B

Tobacco use

C

Obesity

D

Use of prenatal vitamins

54

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Q 56

Which of the following would most greatly increase the activity of an enzyme functioning in the small intestine?

A

Decrease the temperature

B

Increase the amount of enzymes

C

Decrease the pH

D

Increase the amount of substrate

55

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Q 57

Which the following is not the unique features of synovial joint?

A

Articular capsule

B

articular cartilage

C

synovial fluid

D

fibrocartilage

56

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Q 58

Your neighbor has a flower garden in which there are red flowers and white flowers. These flowers are diploid organisms, and flower color is an autosomal trait. The gene for red flowers (R) is dominant, while the gene for white flowers (r) is recessive. Which of the following could be the genotype of a red flower?

A Rr B RR , Rr , or rr C rr D RR or Rr

57

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Q 59

During lytic cycle how many phages are released from infected host cell?

A

100-300

B

100-500

C

100-200

D

100-400

58

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Q 60

Which of the following animals is NOT a protostome?

A

Earthworm

B

Cockroach

C

Butterfly

D

Sting ray

59

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Q 61

Structures that were once functional in the past but no longer serve a purpose due to evolutionary adaptations and physiological changes are referred to as?

A

vestigial

B

analogous structures

C

homologous structures

D

none of these

60

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Q 62

Which of the following changes could lead to loss of enzymatic function?

A

Decrease in activation energy of the reaction

B

Increase in enzyme concentration

C

Change in overall enthalpy of the reaction

D

Increase in pH of the reaction

61

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Q 63

Which substances can cross plasma more easily?

A

starch

B

protein

C

lipid soluble

D

ions

62

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Q 64

Which of the following is NOT found in both prokaryotes and eukaryotes?

A

Ribosomes

B

Cytoskeleton

C

Nucleolus

D

Double-stranded DNA

63

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Q 65

_____ refers to the breakdown or removal of the capsid

A

assembly

B

uncoating

C

integration

D

maturation

64

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Q 66

Lymph vessels transfer the lymph into blood through:

A

subclavian artery

B

subclavian vein

C

Iliac artery

D

Iliac vein

65

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Q 67

Which of the following best describes the impact of purifying selection?

A

It increases frequency of an allele

B

It is the same as disruptive selection

C

It increases genetic diversity

D

It removes variation from the population

66

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Q 68

The property of water due to which it works as a temperature stabilizer and hence protect living organisms from sudden thermal changes is?

A

Dipole nature

B

High specific heat of vaporization

C

High specific heat capacity

D

Its liquid state

67

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Q 69 Which of the following enzyme is not used during fermentation process for making ethanol?

A Diastase

B Zymase

C Protease

D Maltase

68

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Q 70

A state function depends upon the_____?

A

Initial condition of the system

B

Final condition of the system

C

Path of the system

D

Both initial and final condition of the system

69

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Q 71

The gas laws describes the _behavior of gases

A

abrupt

B

non-uniform

C

uniform

D

disordered

70

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Q 72

Quantum numbers specify the _of electron

A

shape

B

energy

C

position

D

all of these

71

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Q 73

Concentration of reactants and products are expressed as Moles per unit

A

Area

B

length

C

Volume

D

None of these

72

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Q 74

Albumin is present in_____?

A

Milk

B

Eggs

C

Beans

D

Muscles

73

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Q 75

The second ionization potential of alkali metals are very high due to

A

Being s-block elements

B

Inert gas configurations

C

ns¹ electronic configuration

D

Being metals

74

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Q 76

Formula mass is considered for ___ compounds instead of their molecular mass

A

metallic

B

ionic

C

covalent

D

polar covalent

75

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Q 77

Free radical reactions takes place in the presence of _____?

A

Heat

B

Sun light

C

Catalyst

D

Oxygen

76

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Q 78

Intermolecular forces are also called as _____?

A

Chemical bond

B

Intramolecular force

C

Van der waal forces

D

Strong forces

77

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Q 79

Which of the following gives primary alcohol with Grignard reagent ?

A

Acetaldehyde

B

Epoxide

C

Acetone

D

Carbon dioxide

78

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Q 80

Specific Rate constant changes its value with

A

Time Constant

B

Change in Temperature

C

Change in Concentration

D

Change in Pressure

79

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Q 81

In general, atomic radii decreases from left to right in a period, due to increase in

A

number of shells

B

nuclear charge

C

shielding effect

D

bond length

80

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Q 82

During the nomenclature of Alkyl halides, halogens are named as_____?

A

Substituents

B

Parent name

C

Ligand

D

Longest chain

81

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Q 83

Independent Molecules of NaCl exist as

A

Solid

B

liquid

C

Vapours

D

Gas

82

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Q 84

Lower boiling point of ether than water is due to the reason?

A

Ether has strong intermolecular forces

B

Water has weak H-bonding

C

Ether has weak intermolecular forces

D

Water has lower vapour pressure

83

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Q 85

Human body contains _____ kind of proteins ?

A

60000

B

Almost 10000

C

5000

D

200

84

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Q 86

Decomposition of Water into Hydrogen and oxygen is a

A

Reversible Reaction

B

Endothermic Reaction

C

Exothermic Reaction

D

Oxidation Reaction

85

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Q 87

The bond formed by the complete transfer of electron is called

A

ionic bond

B

covalent bond

C

metallic bond

D

polar covalent bond

86

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Q 88

Which of the following Compound is not reduced by NaBH_4 ?

A

Acetaldehyde

B

Acetone

C

Carboxylic acid

D

Alkene

87

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Q 89

when water freezes at 0°C , spaces occur between its molecules which results in its ____

A

decrease in volume

B

decrease in density

C

increase in density

D

increase in volume

88

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Q 90

when water freezes to ice, it occupies ____ more space

A

0.9 g/cm³

B

0.1 g/cm³

C

0.12 g/cm³

D

0.13 g/cm³

89

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Q 91

If elements have high ionization energy value then it means they belong to

A

metals

B

non metals

C

metalloid

D

noble gases

90

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Q 92

The formula for calculating electron in subshells or sub energy levels is

A

$$2l+1$$

B

$$2(l+1)$$

C

$$2(2l+1)$$

D

$$2(2l-1)$$

91

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Q 93

Which of the following are weakest intermolecular forces ?

A

Dipole dipole forces

B

Debye forces

C

London dispersion forces

D

H-bonding

92

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Q 94

Which of the following causes complete reduction of carboxylic acid into alkanes?

A

 H_2/Ni

B

 Pd/C

C

 HI/P

D

 LiAlH_4

93

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Q 95

Protein is a polymer of_____?

A

Nitrogen atoms

B

Amino acids

C

Glucose

D

Nitrogenous base

94

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Q 96 Which of the following compounds are added to ethanol to make it unfit for drinking?

A Pyridine

B Methanol

C Acetone

D All of these

95

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Q 97

Which of the following compound shows strong H-Bonding with water?

A

 C_2H_6

B

 CH_3Br

C

 CH_3OCH_3

D

 $\text{C}_2\text{H}_5\text{OH}$

96

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Q 98

Chemical equations do not tell about the _____ because of certain limitations.

A

rate of reaction

B

pressure

C

conditions

D

both A & C

97

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Q 99

There are very strong attractive forces due to close packing in _-

A

solids

B

liquids

C

gases

D

all of these

98

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Q 100

The mechanism of reaction can be understood by

A

Experimental details

B

Balanced chemical equation

C

Molar Ratio

D

All of these

99

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Q 101

The oxidation state of transition elements is usually

A

Variable

B

Constant

C

Single

D

Infinite

100

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Q 102

Dipole dipole forces are stronger between the molecule when?

A

Electronegativity difference is higher

B

Electronegativity difference is less

C

Molecules are far from each other

D

Electronegativity difference is zero

101

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Q 103

 Au^{6+} has _____ configuration

A

 $5d^7$

B

 $4d^3$

C

 $5d^8$

D

 $5d^{10}$

102

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Q 104

If Ammonia is not withdrawn continuously from equilibrium mixture its yield will be

A

increased

B

decreased

C

remain unchanged

D

None of these

103

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Q 105

Electrolyte can be in

A

Plasma state

B

Solution or Fused state

C

Solid form

D

Gaseous State

104

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Q 106

Electrolysis of a dilute solution of NaCl results at the anode

A

Sodium

B

Hydrogen

C

Chlorine

D

Oxygen

105

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Q 107

which element is required for making Chlorophyll in Leaf?

A

Si

B

Ba

C

Mg

D

Ca

106

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Q 108

Which one of the following is common name of Butanoic acid ?

A

Butyric acid

B

Barbaric acid

C

Iso-butyric acid

D

Iso-Barbaric acid

107

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Q 109

Oxidation Number of all the elements in free state is

A

unity

B

Positive

C

Zero

D

Negative

108

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Q 110

S_N1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

109

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Q 111 Which of the following compound is formed as a result of polymerization of acetylene?

A Benzene

B 1,3,5-cyclohexatriene

C Hexene

D Butane

110

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Q 112

Hydrolysis means reaction with

A

Oxygen

B

Hydrogen

C

Water

D

Air

111

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Q 113

The radius of an electron orbit in a hydrogen atom is of the order of

A

1-8 m

B

1-1 m

C

1-11 m

D

1-13 m

112

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Q 114

The isomerism in which compounds have different number of carbon atoms on both sides of the functional group is called as?

A

Tautomerism

B

Metamerism

C

Geometrical Isomerism

D

Position isomerism

113

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 115

In one second if the concentration changes from 0.1 to 0.25 then the rate will be

A

0.02 Moles/dm³s⁻¹

B

0.03 Moles/dm³s⁻¹

C

0.15 Moles/dm³s⁻¹

D

0.11 Moles/dm³s⁻¹

114

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 116

Glucose($C_6H_{12}O_6$) is the most important nutrient in a cell for generating chemical potential energy, what is the mass percent of carbon in 1.5g of sample

A 33%

B 40%

C 53.3%

D 6.67%

115

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#)

Q 117

Kekule structure of benzene failed to explain:

A

Benzene reactivity

B

That benzene has dual character

C

That benzene has less heat of formation

D

All

116

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 118 A real gas obeying Van der Waals equation will resemble to ideal gas if both a & b are

- A small
- B large
- C equal
- D none of these

117

SKIPPED QUESTIONS 

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Next Question >

Q 119

Which of the following test can detect presence of both Aldehydes and ketones ?

A

Tollen's test

B

Reaction with hydrazine

C

Reaction with 2,4-dinitrophenylhydrazine

D

Reaction with Ammonia

118

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 120

Which of the following flavour is due to Amyl acetate ?

A

Jasmine

B

Pineapple

C

Banana

D

Orange

119

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 121

Which of the following is not a mixture of hydrocarbons

A

candle wax

B

kerosine oil

C

paraffin oil

D

vegetable ghee

120

SKIPPED QUESTIONS 

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Q 122

Which of the following bond has highest bond energy value ?

A

C-I

B

C-H

C

C-Cl

D

C-F

121

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 123

Electrolysis is a

A

Spontaneous Reactions

B

Oxidation-reduction reaction

C

Reduction Reaction

D

Oxidation Reaction

122

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 124

The lobes of d-orbitals lie between the axis

A

first two

B

first three

C

in all axis

D

none of these

123

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 125

The oscillating object overshoots the rest position due to:

A

restoring force

B

inertia

C

gravitational potential energy

D

elastic potential energy

124

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 126

The relation between linear and angular velocity is:

A

$$\mathbf{v} = \mathbf{r} \times \boldsymbol{\omega}$$

B

$$\mathbf{v} = \boldsymbol{\omega} \times \mathbf{r}$$

C

$$\boldsymbol{\omega} = \mathbf{v} \times \mathbf{r}$$

D

$$\mathbf{r} = \mathbf{v} \times \boldsymbol{\omega}$$

125

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 127

A motion with constant velocity can be represented on displacement-time graph by:...

A

a horizontal line

B

a curve line with decreasing gradient

C

a straight line with constant gradient

D

a curve line with increasing gradient

126

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 128

The fractional change in resistance per kelvin is known as

A

coefficient in resistance

B

temperature coefficient of resistance

C

resistance

D

None of these

127

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 129

_____ are such nuclei of an element that have the same atomic number Z , but have different mass number A

A isotopes

B isobars

C isomers

D isotherms

128

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 130 The basic reason why a full wave rectifier has twice efficiency than half wave rectifier because

- A it uses transformer
- B its ripple factor is much less
- C it uses both cycle as input
- D Output frequency is double the line frequency

129

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 131

Watt-hour measures_____

A

current

B

electrical energy

C

power

D

voltage

130

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 132

Specific heat of water is

A

 1J/K.g

B

 4.18 J/Kg.K

C

 4180 J/kg.K

D

 2090 J/kg.K

131

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 133

Spectral lines is like a _____ of absorbed or emission energy in a spectrum

A

charged pattern

B

fingerprint pattern

C

discharged pattern

D

None of these

132

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 134

Electron charge in accelerating motion will produce

A

electric field

B

magnetic field

C

EM waves

D

none of these

133

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 135

The efficiency of petrol engine is:....

A

10% to 25%

B

25% to 30%

C

30% to 40%

D

40% to 50%

134

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 136

As the wavelength of light used increases, the distance between bright fringes in the interference pattern:.....

- A increases
- B decreases
- C remains same
- D none of these

135

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 137

What is the S.I. unit of radioactivity?

A

Curie

B

Rutherford

C

Becquerel

D

all of these

136

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 138 In order to enhance magnetic flux, the primary and secondary coils of the transformer are wound on

A soft iron core

B iron core

C hard iron core

D steel core

137

SKIPPED QUESTIONS 

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Q 139

 $e/m =$

A

 mv/Br

B

 v/Br

C

 r/Bv

D

 B/vr

138

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 140 The angular speed of the wheels of a bicycle is 8π radian/sec there period of rotation is :

A .25 sec

B .4 sec

C $\pi/4$ sec

D 4 sec

139

SKIPPED QUESTIONS 

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Next Question 

Q 141

Solar spectra is a type of

A

continuous

B

discrete

C

both a) and b)

D

None of these

140

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 142

In medical scanning _____ rays are used

A

photon

B

x

C

beta

D

white

141

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 143

Electric field at a point varies as r^0 for

A

a plane infinite sheet of charge

B

A point charge

C

Electric dipole

D

Line charge of infinite length

142

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 144 If radial distance is 2 m and linear acceleration is 2 m the angular acceleration becomes

A 4

B $\frac{1}{4}$

C 6

D 1

143

SKIPPED QUESTIONS 

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Next Question 

Q 145

The current passing through a resistor in a circuit is 1 A when the voltage across the same resistor is 10 V. What is the value of current when the voltage across the resistor is 8 V?

A

0.8A

B

8A

C

80A

D

18A

144

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 146

If one body is at rest then if we try to move it then it will resist by

A

inertia of motion

B

inertia of rest

C

inertia of turning

D

inertia of acceleration

145

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 147

When a wave comes across the boundary of two media, a part of it is reflected back. Which statement is true about reflected wave:

- A the reflected wave has larger wavelength and larger frequency.
- B the reflected wave has same wavelength and larger frequency.
- C the reflected wave has larger wavelength and same frequency.
- D the reflected wave has same wavelength and same frequency.

146

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 148

Work done in pulling up a block of wood weighing 2 kN for a length of 10 m on a smooth plane inclined at an angle of 15 degree with the horizontal is

A

4.36 kJ

B

5.17 kJ

C

8.91 kJ

D

9.82 kJ

147

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 149

If a half wave rectifier is used to convert 50Hz AC into DC, then the number of pulses present in rectifier voltage is

A

25

B

50

C

100

D

75

148

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 150

How can a magnetic field be produced?

A

Using a permanent magnet

B

Electric current

C

Using a temporary magnet

D

Using a permanent magnet or electric current

149

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 151

What is the unit of frequency?

A

1/Hertz

B

 $1/\text{second}^2$

C

Second

D

hertz

150

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 152

$1/C_{\text{equ}} = 1/C_1 + 1/C_2 + 1/C_3 + \dots + 1/C_n$ is the combination in

A

Series

B

Parallel

C

Both of them

D

None of them

151

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 153

What is the change in kinetic energy of a proton when it is accelerated through a potential difference of 2MV?

A 0.32 μ J

B 0.32 nJ

C 0.32 pJ

D 0.32 fJ

152

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 154

Henry is unit of

A

self inductance only

B

mutual inductance

C

both a) and b)

D

emf

153

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 155

When the antinodes are all at their extreme displacements,

A

the energy stored is wholly kinetic

B

the energy stored is wholly potential

C

the energy stored is kinetic and potential

D

the energy stored is wholly chemical

154

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 156

Which of the constants is not related to radiation

A

boltzmann

B

planck

C

solar constant

D

all of these

155

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 157

Materials that have both metallic and non-metallic characteristics are called

A

Semiconductor

B

Metal

C

Non metal

D

Organic compound

156

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 158

When electron series terminates on 4th orbit ____ series is obtained

A

Balmer

B

Pfund

C

Paschen

D

none of these

157

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 159

If the radiation wavelength is recorded 2.3×10^{-4} m as half life of ^{14}C , the half life of element is ____ year

A

6000

B

5000

C

4000

D

3000

158

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 160

Consider a drop of water of mass 1 gm falling from a height of 1 km. It hits the ground with a speed of 50 m/s, take $g = 10 \text{ m/s}^2$. the work done by resistive force of air is

A -8.25 J

B -8.75 J

C 8.75 J

D 8.5 J

159

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 161

The maximum efficiency of full wave rectifier is

A

80.60%

B

40.60%

C

70%

D

50%

160

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 161

The maximum efficiency of full wave rectifier is

A

80.60%

B

40.60%

C

70%

D

50%

160

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 162

Atom is neutral because it has equal number of

A

charge particles

B

uncharged particles

C

neutrons

D

all of these

161

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 163

In the VT diagram slope of curve is

A

 R

B

 nR/P

C

 P

D

 R/P

162

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 164

A force of $F = 1 + y$ N is acting in y direction, work done by this force to move the particle from $y = 0$ to $y = 1$ m

A 0.5 J

B 1 J

C 2 J

D 1.5 J

163

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 165

What is the angular frequency during the circular motion?

A

 qm/B

B

 m/qB

C

 qB/m

D

 qmB

164

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 166

Sensitivity of a galvanometer is defined as

A

The deflection produced per unit micro ampere current

B

The deflection per force

C

Force per unit area

D

None of them

165

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 167

If we make the magnetic field stronger, the value of induced current is

A

Decreased

B

Increased

C

Vanished

D

Kept constant

166

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 168

In a bridge type full wave rectifier, if V_m is the peak voltage across the secondary of the transformer, the maximum voltage coming across each reverse biased diode is

A V_m

B $V_m/\sqrt{2}$

C $2V_m$

D $V_m/3$

167

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 169

instantaneous velocity is

A

always positive

B

always negative

C

positive and negative

D

not enough info

168

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 170

Consider a car is travelling for one hour. Which of the following trips have the same average velocity?

A

car travels 20 km due east and car travels 70 km due east

B

car travels 40 km due east, then turns around and travels 20 km due west and car travels 20 km due east

C

car travels 70 km due east and car travels 40 km due east, then turns around and travels 20 km due west

D

car travels 30 km due west, then turns around and travels 30 km due east and car travels 40 km due east, then turns around and travels 20 km due west

169

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#) 

Q 171

The fast moving photons are called

A

waves

B

particles

C

any of a or b

D

none of these

170

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 172

_____ are such nuclei of an element that have the same mass number A , but have different charge number Z

A

isotopes

B

isobars

C

isomers

D

isotherms

171

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Q 173

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is L , then what is the maximum possible wavelength of the wave.

A $2L$ B $\frac{1}{2}L$ C L D $3L$

172

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 174

To get a peak load voltage of 40V out of a bridge rectifier, what should be the approximate rms value of secondary voltage?

A

0V

B

14.4V

C

28.3V

D

56.6 V

173

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 175

Which of the following remains unchanged in transformer

A

Voltage

B

current

C

Power

D

Capacitance

174

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 176

A beam of ion with velocity 2×10^5 m/s enters normally into a magnetic field of 0.04 T. The specific charge of ion is 5×10^7 C/kg. Radius of circle is

A 0.1 m

B 0.16 m

C 0.2 m

D 0.25 m

175

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 177

An object is displaced from position vector $r_1 = (2\mathbf{i} + 3\mathbf{j})\text{m}$ to $r_2 = (4\mathbf{j} + 6\mathbf{k})\text{m}$ under a force $F = (3x^2\mathbf{i} + 2y\mathbf{j})\text{ N}$. Find the work done by this force

A 55 J

B 83 J

C 0

D -83 J

176

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 178

The two points of a medium are separated through a distance of 10 cm. What is the phase angle between these two points if the wavelength of the wave is 0.1m.

A

 π

B

 2π

C

 3π

D

 $3\pi/4$

177

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 179

Steady current does not change with respect to _____.

A

conductor

B

source

C

time

D

potential difference

178

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 180

For ideal polyatomic gas molar specific heat is equal to

A

24.9 J/mol.K

B

12.9 J/mol.K

C

15 J/mol.K

D

16 J/mol.K

179

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Demonstrate correct use of subject-verb agreement

Q 181 Tweezers ____ always useful to handle small objects.

A is

B are

C will

D may

180

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 182

He _____ since evening.

A

is sleeping

B

has been sleeping

C

was sleeping

D

slept

181

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A Myra and her family are spending the summer at attabad lake.

B Myra and her family are spending the summer at attabad lake!

C Myra and her family are spending the summer at Attabad lake.

D Myra and her family are spending the summer at Attabad Lake.

182

SKIPPED QUESTIONS ^

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Next Question >

Comprehend key vocabulary

Q 184 The weather is _____ today, unlike yesterday which was really rough and stormy.

A dirty

B sad

C calm

D lazy

183

SKIPPED QUESTIONS ^

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Next Question >

Demonstrate correct use of articles and prepositions

Q 185

Bilal has _____ terrible headache.

A

a

B

an

C

the

D

no article

184

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Next Question 

Demonstrate control of tenses and sentence structure

Q 186

Did I say anything to make you angry?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

185

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 187

The earth _____ on its own axis once every twenty-four hours.

A

revolve

B

revolves

C

revolving

D

revolved

186

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 188

We must go (A)/ and congratulate him for (B)/ his brilliant (C)/ performance. (D)

A

We must go

B

and congratulate him for

C

his brilliant

D

performance.

187

SKIPPED QUESTIONS 

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Next Question 

Comprehend key vocabulary

Q 189

Your performance _____ our expectations.

A

except

B

excelled

C

exceeded

D

expected

188

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 190

Choose the correct sentence.

A

After class, but before lunch, I went jogging.

B

After class, but before lunch I went jogging.

C

After class but before lunch, I went jogging.

D

After class, but before lunch, I went jogging!

189

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 191 They wanted money (A)/ to purchase somethings (B)/ for themselves (C)/ and donated to their friends. D)

A They wanted money

B to purchase somethings

C for themselves

D and donated to their friends.

190

SKIPPED QUESTIONS ^

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Next Question >

Demonstrate correct use of articles and prepositions

Q 192 Most people agree that kindergarten contributes _____ the child's mental development.

A on

B to

C among

D of

191

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 193

I want to become a writer.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

192

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 194

She _____ two pounds an hour.

A

earns

B

has earned

C

is earning

D

earn

193

SKIPPED QUESTIONS ^

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Next Question >

Comprehend key vocabulary

Q 195

He _____ in this school since 2010.

A

studied

B

has been studying

C

studies

D

had studies

194

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 196

You can get (A)/ all the information (B) you want (C) from this book. (D)

A

You can get

B

all the information

C

you want

D

from this book.

195

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197

Choose the correct sentence.

A

I don't like this one bit said Jamil.

B

"I don't like this one bit," said Jamil.

C

"I don't like this one bit?" said jamil.

D

I don't like this one bit ,said Jamil.

196

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 198 The lions _____ (do) tricks; they _____ (jump) through hoops.

A do, jumps

B did, jumping

C did, jumped

D doing, jumping

197

SKIPPED QUESTIONS ^

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Next Question >

Demonstrate correct use of articles and prepositions

Q 199 We have _____ small house in _____ village in _____ Netherlands.

A the... an... a

B an... a... the

C a... a... the

D a... an... the

198

SKIPPED QUESTIONS ^

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 200 Not only the students but also their instructor _____ been called to the principal's office.

A has

B have

C were

D was

199

SKIPPED QUESTIONS ^

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Next Question >

Complete the series

Q 201

Which letter comes before G and after E?

A

B

B

C

C

F

D

D

200

SKIPPED QUESTIONS  Previous QuestionNext Question 

Statements and conclusions

Q 202

Statements : Some papers are pens. Angle is a paper. Conclusions : I. Angle is not a pen. II. Angle is a PEN

A

Only conclusion II follows

B

Either I or II follows

C

Neither I nor II follows

D

Both I and II follows

201

SKIPPED QUESTIONS  Previous QuestionNext Question 

Statements and Conclusions

Q 203

Statements Nutritious food is delicious and good for health. Apple is nutritious. Conclusions (I) Apple is good for health. (II) Delicious foods are nutritious.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

202

SKIPPED QUESTIONS  Previous QuestionNext Question 

Statements and Actions

Q 204

Statement The management of hospitals are getting worse day by day. The doctors are so confused and they don't even know how to tackle bunch of patients. I. Our Government should increase medical seats. So that we can get more doctor every year. In this case the stress on medical staff will increase as well. II. The Government should provide and develop strategies for medical staff and hospitals

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

203

SKIPPED QUESTIONS ^

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Next Question >

Dependent Causes/ Independent Causes/

Q 205

Statement: The school authority has asked the FSc students to attend special classes to be conducted on Sundays. The parents of the FSc students have withdrawn their wards from attending private tuitions conducted on Sundays.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

204

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Verbal reasoning

Q 206

Statements (I) There is sharp decline in the production of oil seeds this year. (II) The Government has decided to increase the import quantum of edible oil.

- A Statement I is the cause and II is its effect
- B Statement II is the cause and I is its effect
- C Both statements are of independent causes
- D Both statements are the effects of the independent causes

205

SKIPPED QUESTIONS ^

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Next Question >

Series completion (Numbers/Letters)

Q 207

Look at this series: 2, 1, $(1/2)$, $(1/4)$, ... What number should come next?

A

 $(1/3)$

B

 $(1/8)$

C

 $(2/8)$

D

 $(1/16)$

206

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Dependent Causes/ Independent Causes/

Q 208

I. The selection team has decided to keep the same players for the semi final and final match of the series against Australia. II. England got the victory against Australia. \

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect.
- C Both statements I and II are independent causes
- D Both statements I and II are the effects of independent cause.

207

SKIPPED QUESTIONS ^

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Next Question >

Statement and Argument

Q 209

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

- A If argument I is strong
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong

208

SKIPPED QUESTIONS ^

Answer on Passage

Q 210

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max

209

SKIPPED QUESTIONS

Q1

Where the heterozygote is indistinguishable from one of the homozygotes the allele involved is said to be?

A

recessive

B

dominant

C

both a and b

D

none of these

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Q2

The fate of each blastomere is foretold. What will that cleavage be?

A

Spiral and indeterminate

B

Radial and indeterminate

C

Radial and indeterminate

D

Spiral and determinate

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Q3

When cocaine is used as a stimulant, it interferes with the CNS at the reuptake of which hormone?

A

testosterone

B

dopamine

C

serotonin

D

adrenaline

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Q4

How many laminae present in the spinal cord's grey matter?

A

10

B

8

C

12

D

9

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Q5

A triglyceride is considered as

A

protien

B

nucleic acid

C

a simple sugar

D

lipid

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Q6

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

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Q7

The number of spermatids produced from primary spermatocytes is?

A

1

B

2

C

3

D

4

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Q8

The organisms able to use sunlight directly as a source of energy are?

A

Plants

B

Animals

C

Fungi

D

Omnivores

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Q9

Coelom that develops from the archenteron as outpouching is?

A

Pseudocoelom

B

Schizocoelom

C

Enterocoelom

D

both a and b

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Q10

The first layer of cell wall which is formed is called?

A

primary wall

B

secondary wall

C

middle lamella

D

all of these

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Q11

The average diameter of large viruses is approximately equal to

A

100 to 160 nm

B

100 to 200 nm

C

100 nm to 360 nm

D

always below than 100 nm

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Q12

Nutrition to egg in ovary is provided by which of the following?

A

germ cells

B

milk cells

C

follicle cells

D

all of these

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Q13 Which of the following statements is correct distinction between autotrophs and heterotrophs

A only heterotrophs require chemical compounds from the environment

B cellular respiration is unique to heterotrophs

C only heterotrophs have mitochondria

D autotrophs but not heterotrophs can nourish themselves beginning with nutrients that are entirely inorganic

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Q14 The skeleton of the sponges is in the form of variously shaped needle like structures called?

A Stipules

B Brails

C Spines

D Spicules

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Q15

60S and 40S subunit combine to form what size particle?

A

80S

B

90S

C

100S

D

110S

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Q16 The external solution having more concentration than the cell sap is known as:

A Hypertonic solution

B Hypotonic solution

C Isotonic solution

D All A,B and C

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Q17

What is the pH of fresh HCl?

A

1.5

B

5-7

C

2-3

D

4-5

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Q18

The presence of which of the following feature would best indicate a eukaryotic cell?

A

cilia

B

organelles

C

plasma membrane

D

ribosomes

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Q19

Which term means "same alleles"?

A

Heterozygous

B

Hybrid

C

Homozygous

D

None of them

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Q20

Transverse diffusion (flip-flop) is the movement of which of the following molecules?

A

cholesterol molecule

B

amino acid

C

protein

D

phospholipid

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Q21

The primary function of cofactors is to?

A

assist in enzyme synthesis

B

assist in enzyme inhibition

C

assist in enzyme activity

D

both a and b

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Q22

Bacteria are capable of "sharing" genetic material that can be advantageous in certain environments. This type of gene transmission is an example of which of the following?

A

transduction

B

transformation

C

binary fission

D

conjugation

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Q23

What type of viruses are the polioviruses?

A

DNA enveloped virus

B

RNA enveloped virus

C

dna naked virus

D

rna naked virus

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Q24

Pseudocoelom is a characteristic feature of which of the following?

A

Coelenterates

B

Platyhelminthes

C

Annelids

D

Aschelminthes

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Q25

Which of the following best describes a coenzyme?

A

Covalently bonded non-protein part of an enzyme

B

cofactor consists of metal ions

C

Loosely bonded non-protein part of an enzyme

D

both a and b

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Q26

Which of the following is required for learning?

A

Medulla

B

Thalamus

C

hypothalamus

D

Hippocampus

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Q27

Cancer expands systematically by:

A

Locally

B

Systemic

C

Metastasis

D

Invasion

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Q28

Interaction between genes occupying different loci is known as?

A

Dominance

B

Pleiotropy

C

Epistasis

D

none of these

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Q29

How many thin filaments are arrayed around each thick filament within a sarcomere?

A

2

B

4

C

6

D

8

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Q30

In the human body, the group formed by neurons enclosed in the membrane at certain body parts is called?

A

benign

B

malign

C

ganglion

D

neuroglial

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Q31

All of the following are trace elements except

A

Iron

B

chromium

C

nickle

D

sulphur is minor element

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Q32 Where does the molecular mechanism of oxidative phosphorylation take place?

A cytosol

B mitochondria

C nucleus

D all of these

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Q33

Sperms are developed at what temperature?

A

lower than body temperature

B

higher than body temperature

C

body temperature

D

all of these

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Q34

___ are diffused very slowly through plasma membrane

A

disacchrides

B

oligosaccharides

C

proteins

D

fats

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Q35 Which of these processes help in skeletal muscle relaxation after contraction?

A Motor neurons send electrical signals to to muscles

B troponin binds calcium

C calcium is released from intracellular storage sites

D None of these

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Q36

The spent energy in the form of ADP is regenerated by mitochondria into which of the following form?

A

AMP

B

ATP

C

ADP

D

all of these

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Q37

Which of these acts as a relay centre connecting hindbrain with the forebrain

A

Forebrain

B

Midbrain

C

Hindbrain

D

Limbic system

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Q38

what is the main distinguishing features of globular proteins?

A

crystalline

B

disorganized

C

functional

D

both a and c

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Q39

The raw material for coenzymes are?

A

proteins

B

vitamins

C

lipids

D

both a and b

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Q40

A population of birds encounters a dramatic event that results in a severe decrease in population size. As a result of the newly-decreased population, what type of genetic drift does this population now exhibit?

A

Artificial selection

B

Founder affect

C

Bottleneck affect

D

both a and b

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Q41

Which of the following is true regarding a test cross?

A

The traits of a test cross are homozygous dominant

B

Test cross can only be used for monohybrid and dihybrid crosses

C

It is a tool used by researchers to determine the genotype of earlier generations

D

both a and b

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Q42

The ultimate source of all the change is?

A

migration

B

mutation

C

genetic drift

D

selection

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Q43

The best definition of natural selection is?

A

survival of the fittest

B

the most fit individuals adapt to their environment better than less fit individuals

C

those who eat better, are healthier, and live longer are the most fit within a population

D

preservation of traits that lead to increased survival and reproduction

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Q44

Which of the following use book lungs to breathe?

A

earthworm

B

scorpions

C

fish

D

all of these

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Q45

In cell fractionation various components of cells including its organelles can be isolated in different layers depending upon?

A

Their physical properties like size & weight

B

Physical properties of the medium like its density.

C

Their electrical properties like their charges

D

both a and b

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Q46

The event happens in menstrual cycle when level of progesterone declines:

A

Ovulation

B

beginning of menses

C

corpus luteum formation

D

maturation of ovarian follicle

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Q47

Which of the following is not a risk factor for miscarriage?

A

Advanced maternal age

B

Tobacco use

C

Obesity

D

Use of prenatal vitamins

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Q48

Which the following is not the unique features of synovial joint?

A

Articular capsule

B

articular cartilage

C

synovial fluid

D

fibrocartilage

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Q49

Your neighbor has a flower garden in which there are red flowers and white flowers. These flowers are diploid organisms, and flower color is an autosomal trait. The gene for red flowers (R) is dominant, while the gene for white flowers (r) is recessive. Which of the following could be the genotype of a red flower?

A Rr B RR , Rr , or rr C rr D RR or Rr

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Q50

During lytic cycle how many phages are released from infected host cell?

A

100-300

B

100-500

C

100-200

D

100-400

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Q51

Which of the following animals is NOT a protostome?

A

Earthworm

B

Cockroach

C

Butterfly

D

Sting ray

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Q52

Structures that were once functional in the past but no longer serve a purpose due to evolutionary adaptations and physiological changes are referred to as?

A

vestigial

B

analogous structures

C

homologous structures

D

none of these

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Q53

Which of the following changes could lead to loss of enzymatic function?

A

Decrease in activation energy of the reaction

B

Increase in enzyme concentration

C

Change in overall enthalpy of the reaction

D

Increase in pH of the reaction

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Q54 Which of the following is NOT found in both prokaryotes and eukaryotes?

A Ribosomes

B Cytoskeleton

C Nucleolus

D Double-stranded DNA

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Q55

_____ refers to the breakdown or removal of the capsid

A

assembly

B

uncoating

C

integration

D

maturation

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Q56

Lymph vessels transfer the lymph into blood through:

A

subclavian artery

B

subclavian vein

C

iliac artery

D

iliac vein

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Q57

Which of the following best describes the impact of purifying selection?

A

It increases frequency of an allele

B

It is the same as disruptive selection

C

It increases genetic diversity

D

It removes variation from the population

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Q58

The property of water due to which it works as a temperature stabilizer and hence protect living organisms from sudden thermal changes is?

A

Dipole nature

B

High specific heat of vaporization

C

High specific heat capacity

D

Its liquid state

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Q59 Which of the following enzyme is not used during fermentation process for making ethanol?

A Diastase

B Zymase

C Protease

D Maltase

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Q60

A state function depends upon the_____?

A

Initial condition of the system

B

Final condition of the system

C

Path of the system

D

Both initial and final condition of the system

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Q61

Quantum numbers specify the _of electron

A

shape

B

energy

C

position

D

all of these

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Q62

Concentration of reactants and products are expressed as Moles per unit

A

Area

B

length

C

Volume

D

None of these

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Q63

Albumin is present in____?

A

Milk

B

Eggs

C

Beans

D

Muscles

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Q64

The second ionization potential of alkali metals are very high due to

A

Being s-block elements

B

Inert gas configurations

C

ns1 electronic configuration

D

Being metals

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Q65 Formula mass is considered for ___ compounds instead of their molecular mass

A metallic

B ionic

C covalent

D polar covalent

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Q66

Free radical reactions takes place in the presence of_____?

A

Heat

B

Sun light

C

Catalyst

D

Oxygen

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Q67

Intermolecular forces are also called as _____?

A

Chemical bond

B

Intramolecular force

C

Van der waal forces

D

Strong forces

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Q68

Specific Rate constant changes its value with

A

Time Constant

B

Change in Temperature

C

Change in Concentration

D

Change in Pressure

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Q69 In general, atomic radii decreases from left to right in a period, due to increase in

A number of shells

B nuclear charge

C shielding effect

D bond length

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Q70 During the nomenclature of Alkyl halides, halogens are named as_____?

A Substituents

B Parent name

C Ligand

D Longest chain

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Q71

Independent Molecules of NaCl exist as

A

Solid

B

liquid

C

Vapours

D

Gas

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Q72

Lower boiling point of ether then water is due to the reason?

A

Ether has strong intermolecular forces

B

Water has weak H-bonding

C

Ether has weak intermolecular forces

D

Water has lower vapour pressure

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Q73

Human body contains _____ kind of proteins ?

A

60000

B

Almost 10000

C

5000

D

200

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Q74

Decomposition of Water into Hydrogen and oxygen is a

A

Reversible Reaction

B

Endothermic Reaction

C

Exothermic Reaction

D

Oxidation Reaction

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Q75

The bond formed by the complete transfer of electron is called

A

ionic bond

B

covalent bond

C

metallic bond

D

polar covalent bond

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Q76 when water freezes at 0°C , spaces occur between its molecules which results in its ____

A decrease in volume

B decrease in density

C increase in density

D increase in volume

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Q77

when water freezes to ice, it occupies ____ more space

A

0.9 g/cm³

B

0.1 g/cm³

C

0.12 g/cm³

D

0.13 g/cm³

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Q78 I elements have high ionization energy value then it means they belongs to

A metals

B non metals

C metalloid

D noble gases

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Q79

The formula for calculating electron in subshells or sub energy levels is

A $2l+1$

B $2(l+1)$

C $2(2l+1)$

D $2(2l-1)$

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Q80

Which of the following are weakest intermolecular forces ?

A

Dipole dipole forces

B

Debye forces

C

London dispersion forces

D

H-bonding

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Q81 Which of the following causes complete reduction of carboxylic acid into alkanes?

A H_2/Ni

B Pd/C

C HI/P

D LiAlH_4

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Q82

Protein is a polymer of_____?

A

Nitrogen atoms

B

Amino acids

C

Glucose

D

Nitrogenous base

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Q83

Which of the following compound shows strong H-Bonding with water?

A

 C_2H_6

B

 CH_3Br

C

 CH_3OCH_3

D

 $\text{C}_2\text{H}_5\text{OH}$

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Q84 Chemical equations do not tell about the _____ because of certain limitations.

A rate of reaction

B pressure

C conditions

D both A & C

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Q85

There are very strong attractive forces due to close packing in _-

A

solids

B

liquids

C

gases

D

all of these

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Q86

The mechanism of reaction can be understood by

A

Experimental details

B

Balanced chemical equation

C

Molar Ratio

D

All of these

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Q87

The oxidation state of transition elements is usually

A

Variable

B

Constant

C

Single

D

Infinite

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Q88

Dipole dipole forces are stronger between the molecule when?

A

Electronegativity difference is higher

B

Electronegativity difference is less

C

Molecules are far from each other

D

Electronegativity difference is zero

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Q89

 Au^{2+} has _____ configuration

A

 $5d^7$

B

 $4d^9$

C

 $5d^9$

D

 $5d^{10}$

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Q90

Electrolyte can be in

A

Plasma state

B

Solution or Fused state

C

Solid form

D

Gaseous State

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Q91

Electrolysis of a dilute solution of NaCl results at the anode

A

Sodium

B

Hydrogen

C

Chlorine

D

Oxygen

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Q92

which element is required for making Chlorophyll in Leaf?

A

Si

B

Ba

C

Mg

D

Ca

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Q93

Which one of the following is common name of Butanoic acid ?

A

Butyric acid

B

Barbaric acid

C

Iso-butyric acid

D

Iso-Barbaric acid

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Q94

Oxidation Number of all the elements in free state is

A

unity

B

Positive

C

Zero

D

Negative

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Q95

S_N1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

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Q96

Which of the following compound is formed as a result of polymerization of acetylene?

A

Benzene

B

1,3,5-cyclohexatriene

C

Hexene

D

Butane

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Q97

Hydrolysis means reaction with

A

Oxygen

B

Hydrogen

C

Water

D

Air

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Q98

The isomerism in which compounds have different number of carbon atoms on both sides of the functional group is called as?

A

Tautomerism

B

Metamerism

C

Geometrical Isomerism

D

Position isomerism

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Q99 In one second if the concentration changes from 0.1 to 0.25 then the rate will be

A 0.02 Moles/dm³s⁻¹

B 0.03 Moles/dm³s⁻¹

C 0.15 Moles/dm³s⁻¹

D 0.11Moles/dm³s⁻¹

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Q100

Glucose($C_6H_{12}O_6$) is the most important nutrient in a cell for generating chemical potential energy, what is the mass percent of carbon in 1.5g of sample

A 33%

B 40%

C 53.3%

D 6.67%

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Q101

Kekule structure of benzene failed to explain:

A

Benzene reactivity

B

That benzene has dual character

C

That benzene has less heat of formation

D

All

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Q102

A real gas obeying Van der Waals equation will resemble to ideal gas if both a & b are

A

small

B

large

C

equal

D

none of these

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Q103

Which of the following test can detect presence of both Aldehydes and ketones ?

A

Tollen's test

B

Reaction with hydrazine

C

Reaction with 2,4-dinitrophenylhydrazine

D

Reaction with Ammonia

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Q104

Which of the following flavour is due to Amyl acetate ?

A

Jasmine

B

Pineapple

C

Banana

D

Orange

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Q105

Which of the following bond has highest bond energy value ?

A

C-I

B

C-H

C

C-Cl

D

C-F

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Q106

Electrolysis is a

A

Spontaneous Reactions

B

Oxidation-reduction reaction

C

Reduction Reaction

D

Oxidation Reaction

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Q107

The lobes of d-orbitals lie between the axis

A

first two

B

first three

C

in all axis

D

none of these

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Q108

The oscillating object overshoots the rest position due to:

A

restoring force

B

inertia

C

gravitational potential energy

D

elastic potential energy

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Q109

The relation between linear and angular velocity is:

A

$$v = r \times \omega$$

B

$$v = \omega \times r$$

C

$$\omega = v \times r$$

D

$$r = v \times \omega$$

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Q110

A motion with constant velocity can be represented on displacement-time graph by:...

A

a horizontal line

B

a curve line with decreasing gradient

C

a straight line with constant gradient

D

a curve line with increasing gradient

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Q111

The fractional change in resistance per kelvin is known as

A

coefficient in resistance

B

temperature coefficient of resistance

C

resistance

D

None of these

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Q112 The basic reason why a full wave rectifier has twice efficiency than half wave rectifier because

A it uses transformer

B its ripple factor is much less

C it uses both cycle as input

D Output frequency is double the line frequency

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Q113

Watt-hour measures_____

A

current

B

electrical energy

C

power

D

voltage

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Q114

Specific heat of water is

A

 1J/K.g

B

 4.18 J/Kg.K

C

 4180 J/kg.K

D

 2090 J/kg.K

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Q115

Spectral lines is like a _____ of absorbed or emission energy in a spectrum

A

charged pattern

B

fingerprint pattern

C

discharged pattern

D

None of these

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Q116

Electron charge in accelerating motion will produce

A

electric field

B

magnetic field

C

EM waves

D

none of these

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Q117

The efficiency of petrol engine is:....

A

10% to 25%

B

25% to 30%

C

30% to 40%

D

40% to 50%

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Q118

As the wavelength of light used increases, the distance between bright fringes in the interference pattern:....

A

increases

B

decreases

C

remains same

D

none of these

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Q119

What is the S.I. unit of radioactivity?

A

Curie

B

Rutherford

C

Becquerel

D

all of these

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Q120

 $e/m =$

A

 mv/Br

B

 v/Br

C

 r/Bv

D

 B/vr

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Q121 The angular speed of the wheels of a bicycle is 8π radian/sec there period of rotation is :

A .25 sec

B .4 sec

C $\pi/4$ sec

D 4 sec

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Q122

Solar spectra is a type of

A

continuous

B

discrete

C

both a) and b)

D

None of these

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Q123

In medical scanning _____ rays are used

A

photon

B

x

C

beta

D

white

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Q124

Electric field at a point varies as r^0 for

A

a plane infinite sheet of charge

B

A point charge

C

Electric dipole

D

Line charge of infinite length

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Q125 If radial distance is 2 m and linear acceleration is 2 m the angular acceleration becomes

A 4

B $1/4$

C 6

D 1

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Q126

The current passing through a resistor in a circuit is 1 A when the voltage across the same resistor is 10 V. What is the value of current when the voltage across the resistor is 8 V?

A

0.8A

B

8A

C

80A

D

18A

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Q127

If one body is at rest then if we try to move it then it will resist by

A

inertia of motion

B

inertia of rest

C

inertia of turning

D

inertia of acceleration

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Q128

When a wave comes across the boundary of two media, a part of it is reflected back. Which statement is true about reflected wave:

A the reflected wave has larger wavelength and larger frequency.

B the reflected wave has same wavelength and larger frequency.

C the reflected wave has larger wavelength and same frequency.

D the reflected wave has same wavelength and same frequency.

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Q129

Work done in pulling up a block of wood weighing 2 kN for a length of 10 m on a smooth plane inclined at an angle of 15 degree with the horizontal is

A 4.36 kJ

B 5.17 kJ

C 8.91 kJ

D 9.82 kJ

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Q130

If a half wave rectifier is used to convert 50Hz AC into DC, then the number of pulses present in rectifier voltage is

A

25

B

50

C

100

D

75

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Q131

How can a magnetic field be produced?

A

Using a permanent magnet

B

Electric current

C

Using a temporary magnet

D

Using a permanent magnet or electric current

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Q132

What is the unit of frequency?

A

1/Hertz

B

 $1/\text{second}^2$

C

Second

D

hertz

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Q133

$1/C_{\text{equ}} = 1/C_1 + 1/C_2 + 1/C_3 + \dots + 1/C_n$ is the combination in

A

Series

B

Parallel

C

Both of them

D

None of them

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Q134

Henry is unit of

A

self inductance only

B

mutual inductance

C

both a) and b)

D

emf

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Q135

When the antinodes are all at their extreme displacements,

A

the energy stored is wholly kinetic

B

the energy stored is wholly potential

C

the energy stored is kinetic and potential

D

the energy stored is wholly chemical

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Q136

Which of the constants is not related to radiation

A

boltzmann

B

planck

C

solar constant

D

all of these

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Q137

Materials that have both metallic and non-metallic characteristics are called

A

Semiconductor

B

Metal

C

Non metal

D

Organic compound

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Q138

When electron series terminates on 4th orbit ____ series is obtained

A

Balmer

B

Pfund

C

Paschen

D

none of these

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Q139

If the radiation wavelength is recorded 2.3×10^{-4} m as half life of ^{14}C , the half life of element is ____ year

A

6000

B

5000

C

4000

D

3000

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Q140

Consider a drop of water of mass 1 gm falling from a height of 1 km. It hits the ground with a speed of 50 m/s, take $g = 10 \text{ m/s}^2$. the work done by resistive force of air is

A -8.25 J

B -8.75 J

C 8.75 J

D 8.5 J

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Q141

Atom is neutral because it has equal number of

A

charge particles

B

uncharged particles

C

neutrons

D

all of these

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Q142

In the VT diagram slope of curve is

A

R

B

 nR/P

C

P

D

 R/P

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Q143

A force of $F = 1 + y$ N is acting in y direction, work done by this force to move the particle from $y = 0$ to $y = 1$ m

A 0.5 J

B 1 J

C 2 J

D 1.5 J

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Q144

What is the angular frequency during the circular motion?

A

 qm/B

B

 m/qB

C

 qB/m

D

 qmB

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Q145

Sensitivity of a galvanometer is defined as

A

The deflection produced per unit micro ampere current

B

The deflection per force

C

Force per unit area

D

None of them

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Q146

If we make the magnetic field stronger, the value of induced current is

A

Decreased

B

Increased

C

Vanished

D

Kept constant

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Q147

In a bridge type full wave rectifier, if V_m is the peak voltage across the secondary of the transformer, the maximum voltage coming across each reverse biased diode is

A

 V_m

B

 $V_m/\sqrt{2}$

C

 $2V_m$

D

 $V_m/3$

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Q148

instantaneous velocity is

A

always positive

B

always negative

C

positive and negative

D

not enough info

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Q149

The fast moving photons are called

A

waves

B

particles

C

any of a or b

D

none of these

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Q150

_____ are such nuclei of an element that have the same mass number A , but have different charge number Z

A isotopes

B isobars

C isomers

D isotherms

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Q151

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is L , then what is the maximum possible wavelength of the wave.

A

 $2L$

B

 $\frac{1}{2}L$

C

 L

D

 $3L$

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Q152

To get a peak load voltage of 40V out of a bridge rectifier, what should be the approximate rms value of secondary voltage?

A 0V

B 14.4V

C 28.3V

D 56.6 V

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Q153

Which of the following remains unchanged in transformer

A

Voltage

B

current

C

Power

D

Capacitance

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Q154

A beam of ion with velocity 2×10^5 m/s enters normally into a magnetic field of 0.04 T. The specific charge of ion is 5×10^7 C/kg. Radius of circle is

A 0.1 m

B 0.16 m

C 0.2 m

D 0.25 m

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Q155

An object is displaced from position vector $\mathbf{r}_1 = (2\mathbf{i} + 3\mathbf{j})\text{m}$ to $\mathbf{r}_2 = (4\mathbf{j} + 6\mathbf{k})\text{m}$ under a force $\mathbf{F} = (3x^2\mathbf{i} + 2y\mathbf{j})\text{ N}$. Find the work done by this force

A 55 J

B 83 J

C 0

D -83 J

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Q156

Steady current does not change with respect to _____.

A

conductor

B

source

C

time

D

potential difference

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Q157

For ideal polyatomic gas molar specific heat is equal to

A

24.9 J/mol.K

B

12.9 J/mol.K

C

15 J/mol.K

D

16 J/mol.K

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Q158

Tweezers ____ always useful to handle small objects.

A

is

B

are

C

will

D

may

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Q159

He _____ since evening.

A

is sleeping

B

has been sleeping

C

was sleeping

D

slept

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Q160

Choose the correct sentence.

A Myra and her family are spending the summer at attabad lake.

B Myra and her family are spending the summer at attabad lake!

C Myra and her family are spending the summer at Attabad lake.

D Myra and her family are spending the summer at Attabad Lake.

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Q161 The weather is _____ today, unlike yesterday which was really rough and stormy.

A dirty

B sad

C calm

D lazy

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Q162

Bilal has _____ terrible headache.

A

a

B

an

C

the

D

no article

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Q163

The earth _____ on its own axis once every twenty-four hours.

A

revolve

B

revolves

C

revolving

D

revolved

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Q164

We must go (A)/ and congratulate him for (B)/ his brilliant (C)/ performance. (D)

A

We must go

B

and congratulate him for

C

his brilliant

D

performance.

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Q165

Your performance _____ our expectations.

A

except

B

excelled

C

exceeded

D

expected

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Q166

Choose the correct sentence.

A

After class, but before lunch, I went jogging.

B

After class, but before lunch I went jogging.

C

After class but before lunch, I went jogging.

D

After class, but before lunch, I went jogging!

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Q167

They wanted money (A)/ to purchase somethings (B)/ for themselves (C)/ and donated to their friends. D)

A

They wanted money

B

to purchase somethings

C

for themselves

D

and donated to their friends.

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Q168 Most people agree that kindergarten contributes _____ the child's mental development.

A on

B to

C among

D of

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Q169

I want to become a writer.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q170

She _____ two pounds an hour.

A

earns

B

has earned

C

is earning

D

earn

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Q171

You can get (A)/ all the information (B) you want (C) from this book. (D)

A

You can get

B

all the information

C

you want

D

from this book.

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Q172

Choose the correct sentence.

A

I don't like this one bit said Jamil.

B

"I don't like this one bit," said Jamil.

C

"I don't like this one bit?" said jamil.

D

I don't like this one bit ,said Jamil.

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Q173 The lions _____ (do) tricks; they _____ (jump) through hoops.

A do, jumps

B did, jumping

C did, jumped

D doing, jumping

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Q174 We have _____ small house in _____ village in _____ Netherlands.

A the... an... a

B an... a... the

C a... a... the

D a... an... the

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Q175 Not only the students but also their instructor _____ been called to the principal's office.

A has

B have

C were

D was

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Q176

Which letter comes before G and after E?

A

B

B

C

C

F

D

D

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Q177

Statements : Some papers are pens. Angle is a paper. Conclusions : I. Angle is not a pen. II. Angle is a PEN

A

Only conclusion II follows

B

Either I or II follows

C

Neither I nor II follows

D

Both I and II follows

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Q178

Statement The management of hospitals are getting worse day by day. The doctors are so confused and they don't even know how to tackle bunch of patients. I. Our Government should increase medical seats. So that we can get more doctor every year. In this case the stress on medical staff will increase as well. II. The Government should provide and develop strategies for medical staff and hospitals

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q179

Statement: The school authority has asked the FSc students to attend special classes to be conducted on Sundays. The parents of the FSc students have withdrawn their wards from attending private tuitions conducted on Sundays.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

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Q180

Statements (I) There is sharp decline in the production of oil seeds this year. (II) The Government has decided to increase the import quantum of edible oil.

A

Statement I is the cause and II is its effect

B

Statement II is the cause and I is its effect

C

Both statements are of independent causes

D

Both statements are the effects of the independent causes

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Q181

Look at this series: 2, 1, $(1/2)$, $(1/4)$, ... What number should come next?

A

 $(1/3)$

B

 $(1/8)$

C

 $(2/8)$

D

 $(1/16)$

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Q182

I. The selection team has decided to keep the same players for the semi final and final match of the series against Australia. II. England got the victory against Australia. \

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

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Q183

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

A

If argument I is strong

B

If only argument II is strong

C

If both I and II are strong.

D

If neither I nor II is strong

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Q184

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max

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Q185

The affect of genetic drift increases as the population size?

A

increases

B

decreased

C

remains same

D

none of these

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Q186

What is critical in photoperiodism?

A

Length of light period

B

Length of dark period

C

both a and b

D

none of these

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Q187

The attraction between water molecules and cell wall of xylem is termed as:

A

cohesion

B

tension

C

adhesion

D

imbibition

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Q188

Closed circulatory system is present in which group of invertebrates?

A

Arthropods

B

Gastopods

C

Aves

D

Annelids

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Q189

What affect do enzymes have on the activation energy of a reaction?

A

increases

B

decreases

C

no affect

D

Increases or decreases depending upon individual enzyme

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Q190

Apomixis is a form of which of the following?

A

Parthenocarpy

B

Parthenogenesis

C

vernalization

D

all of these

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Q191

In the evolutionary sense, which organism has the highest fitness?

A

A sterile mule that can pull over 800 pounds

B

A childless human male who lives to be over one hundred years old

C

A dog who cannot give birth due to a hip abnormality, but is healthy in all other respects

D

A prairie dog that, though smaller than the average member of her species, has twice as many healthy young in each litter

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Q192

ATP molecules are consumed during which process?

A

Glycolysis

B

Krebs cycle

C

light dependent phase

D

none

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Q193

Which of the following would most greatly increase the activity of an enzyme functioning in the small intestine?

A

Decrease the temperature

B

Increase the amount of enzymes

C

Decrease the pH

D

Increase the amount of substrate

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Q194

Which substances can cross plasma more easily?

A

starch

B

protein

C

lipid soluble

D

ions

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Q195

The gas laws describes the _behavior of gases

A

abrupt

B

non-uniform

C

uniform

D

disordered

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Q196

Which of the following gives primary alcohol with Grignard reagent ?

A

Acetaldehyde

B

Epoxide

C

Acetone

D

Carbon dioxide

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Q197

Which of the following Compound is not reduced by NaBH_4 ?

A

Acetaldehyde

B

Acetone

C

Carboxylic acid

D

Alkene

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Q198

If Ammonia is not withdrawn continuously from equilibrium mixture its yield will be

A

increased

B

decreased

C

remain unchanged

D

None of these

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Q199

Which of the following compounds are added to ethanol to make it unfit for drinking?

A

Pyridine

B

Methanol

C

Acetone

D

All of these

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Q200

The radius of an electron orbit in a hydrogen atom is of the order of

A

1-8 m

B

1-1 m

C

1-11 m

D

1-13 m

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Q201

Which of the following is not a mixture of hydrocarbons

A

candle wax

B

kerosine oil

C

paraffin oil

D

vegetable ghee

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Q202

_____ are such nuclei of an element that have the same atomic number Z , but have different mass number A

A

isotopes

B

isobars

C

isomers

D

isotherms

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Q203

In order to enhance magnetic flux, the primary and secondary coils of the transformer are wound on

A

soft iron core

B

iron core

C

hard iron core

D

steel core

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Q204

What is the change in kinetic energy of a proton when it is accelerated through a potential difference of 2MV?

A 0.32 μ J

B 0.32 nJ

C 0.32 μ J

D 0.32 fJ

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Q205

The maximum efficiency of full wave rectifier is

A

80.60%

B

40.60%

C

70%

D

50%

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Q206

Consider a car is travelling for one hour. Which of the following trips have the same average velocity?

A

car travels 20 km due east and car travels 70 km due east

B

car travels 40 km due east, then turns around and travels 20 km due west and car travels 20 km due east

C

car travels 70 km due east and car travels 40 km due east, then turns around and travels 20 km due west

D

car travels 30 km due west, then turns around and travels 30 km due east and car travels 40 km due east, then turns around and travels 20 km due west

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Q207

The two points of a medium are separated through a distance of 10 cm. What is the phase angle between these two points if the wavelength of the wave is 0.1m.

A π B 2π C 3π D $3\pi/4$

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Q208

Did I say anything to make you angry?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q209

He _____ in this school since 2010.

A

studied

B

has been studying

C

studies

D

had studies

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Q210

Statements Nutritious food is delicious and good for health. Apple is nutritious. Conclusions (I) Apple is good for health. (II) Delicious foods are nutritious.

A

Only conclusion (I) follows

B

Only conclusion (II) follows

C

Both conclusions follow

D

Both of them do not follow

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